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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

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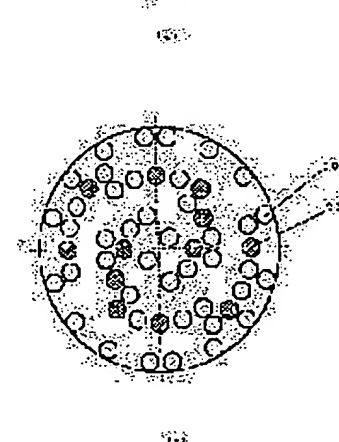
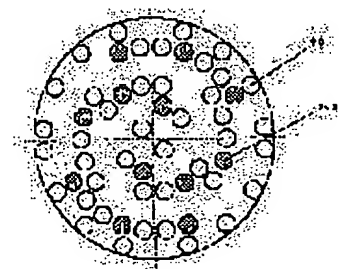
YOSHIDA HIROKAZU

(54) LED DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent deterioration in a display shape and a color blend property by specifying arrangement of light emitting diodes.

SOLUTION: Four kinds of spiral-shaped wiring through holes are provided on a printed circuit board forming four layers of copper foil patterns so that light emitting diodes groups connected parallel to each other are formed. The light emitting diodes capable of respectively emitting yellow and the light emitting diodes capable of emitting bluish green in a complementary color relation with the yellow and with higher visual sensitivity are arranged in respective spiral-shaped light emitting diodes groups on a whole display surface by considering the color blend property on the printed circuit board. That is, in such a case, the light emitting diodes groups are provided with first light emitting diodes groups 201, 202 arranged plotting a circle from a central part of a light emission observational surface of an LED display device toward the outside and second light emitting diodes groups 203, 204 arranged plotting the circle from the central part of the light emission observational surface toward the outside between the first light emitting diodes groups 201, 202.



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